

REPLACEMENT SHEET

Abstract

An arrangement of at least one heat-insulation layer for a carrier body for preventing heat transfer between the body and a surrounding area includes at least one type of luminous substance which is excitable by an excitation light having a determined excitation wavelength for emitting a luminescent light having a defined emission wavelength and at least a second heat-insulation layer substantially free of the luminous substance. The second heat-insulation layer is opaque with respect to the excitation light used for initiating the luminescent light emission and/or to a luminous substance light. The luminous substance contains at least one type of mixed oxide selected from a perovskite group of total formula $AA'O_3$, and/or of pyrochlore of total formula $A_2B_2O_7$, wherein A and A' is the trivalent metal, respectively and B is a tetravalent metal.